1. Identification

Product identifier
Proguard CN-1M V15 H3 Part A

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture
Coatings and paints, fillers, putties, thinners

Uses advised against
No information available.

Details of the supplier of the safety data sheet

Company name: Ceramic Polymer GmbH
Street: Daimlerling 9
Place: DE-32289 Rödinghausen
Telephone: +49(0) 52 23 / 9 62 76-0
E-mail: info@ceramic-polymer.de
Internet: www.ceramic-polymer.de

Importer:
A.W. Chesterton Company Ltd. 889 Fraser Drive, Unit 105 Burlington, Ontario L7L 4X8, Canada
Phone 905-335-5055

Emergency telephone number:
24 hours per day, 7 days per week Call Infotrac: 1-800-535-5053 Outside N. America: +1 352-323-500 (collect)

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015
Skin corrosion/irritation: Skin Corr. 1C
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1
Reproductive toxicity: Rep. 1B

Label elements

WHMIS 2015
Signal word: Danger

Pictograms:

Hazard statements
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May damage fertility or the unborn child.

Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Immediately call a POISON CENTER/doctor.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Store locked up. Dispose of waste according to applicable legislation.

**Other hazards**
No information available.

### 3. Composition/information on ingredients

**Mixtures**

**Hazardous components**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>25 - &lt; 30 %</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1- (2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane</td>
<td>25 - &lt; 30 %</td>
</tr>
<tr>
<td>28064-14-4</td>
<td>Phenol, polymer with formaldehyde, glycidether</td>
<td>15 - &lt; 20 %</td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone</td>
<td>1 - &lt; 5 %</td>
</tr>
</tbody>
</table>

### 4. First-aid measures

**Description of first aid measures**

**General information**
Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**
In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

**After contact with skin**
After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately. Do not wash with: Solvents/Thinner

**After contact with eyes**
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

**Most important symptoms and effects, whether acute or delayed**
Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

**Indication of immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms. After contact with skin, wash immediately with plenty of Lutrol. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

### 5. Fire-fighting measures

**Extinguishing media**
Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet
Unsuitable extinguisihing media
Full water jet

Specific hazards arising from the hazardous product
Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

Special protective equipment and precautions for fire-fighters
Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.
Co-ordinate fire-fighting measures to the fire surroundings.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
See protective measures under point 7 and 8.
Provide adequate ventilation.
Personal protection equipment: see section 8
Remove persons to safety.

Environmental precautions
Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections
See protective measures under point 7 and 8.
Disposal: see section 13

7. Handling and storage

Precautions for safe handling
Advice on safe handling
Wear personal protection equipment (refer to section 8). Keep container tightly closed.

Advice on protection against fire and explosion
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Advice on storage compatibility
Keep away from:
Food and feedingstuffs
Oxidising agent

Further information on storage conditions
Keep away from:
Frost
Heat
Humidity

8. Exposure controls/Personal protection

Control parameters
Exposure limits (ACGIH)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>ppm</th>
<th>mg/m³</th>
<th>F/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>Methyl ethyl ketone</td>
<td>200</td>
<td></td>
<td>300</td>
<td>TWA (8 h)</td>
<td>ACGIH-2017</td>
</tr>
</tbody>
</table>

Exposure controls

Appropriate engineering controls
Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures
Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

Eye/face protection
Suitable eye protection:
- Eye glasses with side protection
- Goggles

Hand protection
Wear protective gloves.

Suitable gloves type:
- NBR (Nitrile rubber),
- Butyl caoutchouc (butyl rubber)
- Wear cotton undermitten if possible.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection
Protective clothing

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
- Filtering device (full mask or mouthpiece) with filter: A-P3
- Protective respirator with independent air supply

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>not determined</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

pH-Value: not determined

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: not determined
Sublimation point: not determined
Softening point: not determined
10. Stability and reactivity

Reactivity
The product is stable under storage at normal ambient temperatures.

Chemical stability
The substance is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions
Reacts with: Acid, Oxidising agent

Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Incompatible materials
Acid, Oxidising agent

Hazardous decomposition products
Does not decompose when used for intended uses. No known hazardous decomposition products.

11. Toxicological information
Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Route of exposure</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>oral</td>
<td>LD50 &gt; 5000 mg/kg</td>
<td>Rat</td>
<td>Study report (1988)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rat</td>
<td>Study report (1988)</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane</td>
<td>oral</td>
<td>LD50 3398 mg/kg</td>
<td>Rat</td>
<td>Other company data (1976)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 3170 mg/kg</td>
<td>Rat</td>
<td>Study report (1976)</td>
</tr>
<tr>
<td>78-93-3</td>
<td>Butanone</td>
<td>oral</td>
<td>LD50 3300 mg/kg</td>
<td>Rat</td>
<td>IUCLID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 6400 - 8000 mg/kg</td>
<td>Rabbit</td>
<td>Supplier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50 34,5 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitizing effects

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane; Phenol, polymer with formaldehyde, glycidether)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility or the unborn child. (Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Name of toxicologically synergistic products

No information available.

12. Ecological information

Ecotoxicity

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.
13. Disposal considerations

Waste treatment methods

Advice on disposal
Dispose of waste according to applicable legislation.

Contaminated packaging
Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

14. Transport information

Canadian TDG

<table>
<thead>
<tr>
<th>UN/ID number:</th>
<th>UN 1760</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name:</td>
<td>CORROSIVE LIQUID, N.O.S. (epoxy resin)</td>
</tr>
<tr>
<td>Hazard classes:</td>
<td>8</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
</tbody>
</table>

Marine transport (IMDG)

<table>
<thead>
<tr>
<th>UN number:</th>
<th>UN 1760</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Nations proper shipping name:</td>
<td>CORROSIVE LIQUID, N.O.S. (epoxy resin)</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>8</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
<tr>
<td>EmS:</td>
<td>F-A, S-B</td>
</tr>
</tbody>
</table>

Air transport (ICAO-TI/IATA-DGR)

<table>
<thead>
<tr>
<th>UN number:</th>
<th>UN 1760</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Nations proper shipping name:</td>
<td>CORROSIVE LIQUID, N.O.S. (epoxy resin)</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>8</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Limited quantity Passenger:</td>
<td>1 L</td>
</tr>
<tr>
<td>Passenger LQ:</td>
<td>Y841</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
<tr>
<td>IATA-packing instructions - Passenger:</td>
<td>852</td>
</tr>
<tr>
<td>IATA-max. quantity - Passenger:</td>
<td>5 L</td>
</tr>
<tr>
<td>IATA-packing instructions - Cargo:</td>
<td>856</td>
</tr>
<tr>
<td>IATA-max. quantity - Cargo:</td>
<td>60 L</td>
</tr>
</tbody>
</table>

Environmental hazards
ENVIRONMENTALLY HAZARDOUS: yes
Safety Data Sheet
according to WHMIS

Proguard CN-1M V15 H3 Part A

Print date: 03/13/2018

Danger releasing substance: epoxy resin

Special precautions for user
No information available.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No information available.

15. Regulatory information

Canadian regulations

DSL/NDSL inventory status

DSL:
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol: Yes.
Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-
(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane: Yes.
Phenol, polymer with formaldehyde, glycidether: Yes.
butanone: Yes.

NDSL:
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol: No.
Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-
(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane: No.
Phenol, polymer with formaldehyde, glycidether: No.
butanone: No.

National Pollutant Release Inventory (NPRI)
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol: No.
Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-
(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane: No.
Phenol, polymer with formaldehyde, glycidether: No.
butanone: Yes.

16. Other information

Abbreviations and acronyms
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DSL: Domestic Substances List
NDSL: Non-Domestic Substances List

Further Information
The above information describes exclusively the safety requirements of the product and is based on our
present-day knowledge. The information is intended to give you advice about the safe handling of the product
named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be
transferred to other products. In the case of mixing the product with other products or in the case of
processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor’s safety data sheet.)